

Title (en)
Combined burners and air supply ports.

Title (de)
Kombinierte Brenner und Luftzufuhröffnungen.

Title (fr)
Brûleurs et orifices d'admission d'air combinés.

Publication
EP 0641970 A3 19950816 (EN)

Application
EP 94301959 A 19940318

Priority
US 11631293 A 19930903

Abstract (en)
[origin: US5329866A] A burner and port combination for the combustion of a pulverized coal fuel plus air mixture comprises a throat and a burner nozzle positioned at a central area of the throat. The burner nozzle has an inlet for receiving the pulverized coal fuel plus air mixture and an outlet for discharging the pulverized coal fuel plus air mixture. A secondary air tube is positioned laterally adjacent the burner nozzle at each lateral side of the nozzle in the throat for providing a first portion of a secondary air to the throat. A plurality of vanes are positioned at an upper portion of the throat above the burner nozzle and the tubes and at a lower portion of the throat below the burner nozzle tubes for deflecting a second portion of the secondary air from the burner nozzle.

IPC 1-7
F23C 7/02; **F23D 1/00**

IPC 8 full level
F23C 1/12 (2006.01); **F23C 7/02** (2006.01); **F23C 99/00** (2006.01); **F23D 1/00** (2006.01)

CPC (source: EP US)
F23C 7/02 (2013.01 - EP US); **F23D 1/00** (2013.01 - EP US)

Citation (search report)
• [AD] US 5199355 A 19930406 - LARUE ALBERT D [US]
• [A] US 4545307 A 19851008 - MORITA SHIGEKI [JP], et al

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
US 5329866 A 19940719; CA 2120903 A1 19950304; CA 2120903 C 19960924; CN 1100188 A 19950315; EP 0641970 A2 19950308; EP 0641970 A3 19950816; JP H0783405 A 19950328; TW 232045 B 19941011

DOCDB simple family (application)
US 11631293 A 19930903; CA 2120903 A 19940408; CN 94104867 A 19940425; EP 94301959 A 19940318; JP 22396594 A 19940826; TW 83102784 A 19940330